CONTRACT INSPECTION REPORT			CONTRACT NO.	TASK NO.	
то:			DATE		
ENGINEERING SECTION/CE	s/Pn/or.		8 July 1965	(7.6. f.l., 1,,,,)	
ENGINEERING SECTION/CB/PD/OL			INSPECTION REPORT NO. (If final, so state)		
			ESTIMATED COMPLETION DATE		
NAME OF CONTRACTOR			30 July 1966		/
NAME OF CONTRACTOR					:
TYPE OF COMMODITY OR SERVICE					
Linear Phasolver Tec	chniques S	tudy			
THE CONTRACTOR IS ON SCHEDULE			THE CONTRACTOR WILL PROBABLY REMAIN WITHIN ALLOCATED FUNDS YES IN NO IF ANSWER IS "NO" ADVISE RECOMMENDATION AND/OR ACTION OF SPONSORING OFFICE. ON REVERSE HEREOF. IF KNOWN, INDICATE MAGNITUDE OF ADDITIONAL FUNDS INVOLVED.		
YES	X NO				
PER CENT OF WORK COMPLETED - 95	76				
PER CENT OF FUNDS EXPENDED - 2	76				
HAS AN INTERIM REPORT, F DURING THE PERIOD? X YES	INAL REPORT,	PROTOTYPE ves. dive	OR OTHER END ITEM BE details on reverse si	EN RECEIVED FROM THE COI	TRACTOR
HAS GOVERNMENT-OWNED PRO	DPERTY BEEN DE	ELIVERED TO	CONTRACTOR DURING TH		X No
(If yes, indicate items, quan	ntity, and co	st on rever	se side.)	_	
			ITIVES		
IS THIS AN INCENTIVE CONTRACT IF YES, CHECK TYPE	YES	🕎 но	NOTE: USE REVERSE SIDE FOR	COMMENTS.	
COST PERFORMANC	E 🔲 DE	ELIVERY	FINAL REPORT MUST CO	NTAIN INCENTIVE EVALUAT	ON.
	OVERALL	PERFORMA	NCE OF CONTRACTOR		
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2. EXCELLENT	4. 🗶 A	VERAGE	6. BAREL	Y ADEQUATE	
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Approved For Release 2006/03/16:CIA-RDP78B04/70AUU18UUUUUU28-3  AARRATIVE REPORT  Discussion with the contractor revealed that funds allocated for work being performed on the development of the linear phasolver were practically exhausted. However, tecinically the work performed on this take appears sound and logically with an eye for future improvements on precision measurements.  Fresently the contractor has been able to repeat measurements to within § to § interon. The phasolver error within the pole pairs is chied to be 1.6 interon. Error introduced into the system by the measured gauge block is estimated to be 0.2 micron.  Measurements made by this writer found the system capable of reproducing measurements performed by the contractor to within 0.1 micron.  The contractor suggested an encoder be designed and built after the linear phasolver has been completely tested and evaluated. The encoder would yield course position information.  The non-linearity error along the axis of the phasolver has been calibrated to ± 2 micron while the peak-to-peak repeatibility is 0.5 micron. The contractor is confident that the non-linear error can be resolved either by calibration or built into the encoder.  Remaining work to be performed on the testing and evaluation of the linear phasolver includes effected due to skow, tilt, gap, immidity and temperatures. An additional four to six weeks will be required to complete the testing.  Finally, the contractor would investigate the use of air bearings on the moving head of the linear phasolver.  A request for additional funding, including the above mentioned overrun and a proposed change of scope has been received and is being taken into consideration.					
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